

**WHAT IS CLAIMED IS:**

20017 1. A method of enabling anonymous shipment of a package containing goods purchased by a customer from a vendor for delivery to an address unknown to the vendor, comprising the steps of:

5 receiving a request for a package code for the package from the vendor;

sending the package code to the vendor, the package code being devoid of delivery address information and

sending a shipping identifier and an associated address to the shipper, whereby the shipper, after picking up the package for shipment from the vendor, matches the package code sent to the vendor with the shipping identifier and identifies the associated address as the delivery address of the package.

2. The method of Claim 1, wherein the package code includes at least one of a code number and machine-readable indicia expressing the code number.

3. The method of Claim 1, wherein the received request includes at least one of a request for authentication and an electronic draft for payment of at least one of the purchased goods and a shipping charge.

4. The method of Claim 1, wherein the receiving and sending steps are performed over a computer network.

5. The method of Claim 1, wherein the computer network includes at least one of leased lines, a private network, a virtual private network and the Internet.

6. The method of Claim 1, wherein the receiving and sending steps are carried out by a bank.

7. A method of processing a package identified by a package code devoid of delivery address information, the package containing goods purchased by a customer from a vendor for shipment to an address unknown to the vendor, comprising the steps of:

receiving a request to pick up a package from the vendor, the package having a machine-readable package code affixed thereto, the request including a shipping identifier and a delivery address associated with the shipping identifier;

picking up the package from the vendor;

reading the package code affixed to the package;

matching the package code with the received shipping identifier, and

delivering the package to the delivery address associated with the shipping identifier.

8. The method of Claim 7, further comprising the steps of printing a shipping label on which the delivery address is visible and affixing the shipping label on the package.

9. The method of Claim 7, wherein the package code includes at least one of a code number and machine-readable indicia expressing the code number.

10. The method of Claim 7, wherein the receiving step is performed over a computer network.

11. The method of Claim 7, wherein the computer network includes at least one of leased lines, a private network, a virtual private network and the Internet.

12. The method of Claim 7, wherein the request is sent to the shipper by a bank.

13. A method of causing a package of goods purchased from a vendor to be delivered to an address unknown to the vendor, comprising the steps of:

sending a request for a package code to a trusted entity;

receiving the package code, the package code being devoid of delivery address information;

affixing the package code to the package, and

5       surrendering the package to a shipper, whereby the shipper matches the package code with a shipping identifier and associated delivery address previously received from the trusted entity, generates a shipping label specifying the associated delivery address and affixes the label to the package.

10       14.     The method of Claim 13, wherein the package code includes at least one of a code number and machine-readable indicia expressing the code number.

15       15.     The method of Claim 13, wherein the request includes at least one of a request for authentication and an electronic draft for payment of at least one of the purchased goods and a shipping charge.

15       16.     The method of Claim 13, wherein the receiving and sending steps are performed over a computer network.

17.     The method of Claim 13, wherein the trusted entity is a bank.

20       18.     A method of enabling a customer to anonymously purchase an item from a vendor via an electronic draft for delivery to an address without divulging the delivery address to the vendor, comprising the steps of:

storing, in a bank, an encrypted unique identifier for the customer, the encrypted unique identifier being linked to the customer's personal and financial information stored in the bank, including the delivery address;

authenticating the customer having caused a draft to be executed for payment of at least one of a purchase price of the item and a shipping cost by encrypting at least a portion of an identification data provided by the customer and successfully matching the encrypted identification data with the stored encrypted unique identifier;

5 retrieving at least the authenticated customer's financial information and delivery address;

honoring a draft presented by the vendor for payment of the item only when the customer is

successfully authenticated by the bank;

assigning a package code to the item, the assigned package code being associated with the retrieved delivery address;

10 sending only the package code to the vendor, the vendor affixing the package code to the package, and

15 sending the package code and the associated delivery address to a shipper for storage in a shipper database, whereby the shipper picks up the item from the vendor, and prints out a shipping label for the package, a delivery address on the label being that customer address linked to a package code stored in the shipper database that matches the package code affixed to the package.

20 19. The method of Claim 18, wherein the identification data includes at least one of an ID and a password, the password being known to the bank only in encrypted form, biometric data and a digital certificate.

20 20. The method of Claim 18, wherein the customer's encrypted unique identifier, personal and financial information are stored in a data structure managed by a Directory software controlled by the bank.

21. The method of Claim 18, wherein the package code and the linked customer address are replicated in the shipper database via Light Weight Directory Access Protocol (LDAP) or similar standard format.

22. The method of Claim 18, wherein at least a portion of the shipper database is replicated in a portable electronic device equipped with a package code scanner and a shipping label printer.

23. The method of Claim 18, wherein the package code includes at least one of a code number and machine-readable indicia expressing the code number.

24. The method of Claim 18, wherein the authenticating and sending steps are performed over a computer network.

25. The method of Claim 24, wherein the computer network includes the Internet.

26. The method of Claim 18, wherein the customer is a business.

27. A method of enabling a customer having purchased goods in digital form from a vendor to have the goods delivered to a specified electronic delivery address without divulging the electronic delivery address to the vendor, comprising the steps of:

associating a package code with the specified electronic delivery address and storing the package code and the electronic delivery address;

sending the vendor a package code and an associated forwarding electronic address, the forwarding electronic address being different from the electronic delivery address, the vendor forwarding the goods and the package code to the forwarding electronic address associated with the received package code;

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28. The method of claim 27, where

5 a bank.

1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation  $f(x) = \sum_{n=0}^{\infty} a_n x^n$ , where  $a_n$  are the coefficients of the power series. It is shown that the function  $f(x)$  is analytic in the disk  $|x| < 1$  and that it satisfies the functional equation  $f(x) = x f(x^2) + 1$ .